Proposal Full View

Print

Applicant Information

Organization Name	San Bernardino County Flood Control District *
Tax ID	**956002748**
Proposal Name	Cactus Basins 3, 4 and 5 *
Proposal Objective	The County Flood Control District proposes the construction of three inlined retention basins. The main objective of the proposed project is to eliminate any potential increase in flood hazard due to the extensive development in the northern portion of the watershed. Cactus Basins 3, 4 & 5 are an essential component that will aid in providing adequate storm protection infrastructure to the City of Rialto's primary commercial/industrial area. The current downstream system is at capacity and is unable to accommodate planned development of the area. These basins will provide flood protection not only to the immediate vicinity, but also to the areas downstream because the basin creates a reduction of 80% in the peak outlet flow. This reduction allows the outlet and downstream facilities to flow at a lower peak rate, and therefore to be designed with smaller maximum capacities. Secondary benefits include the potential for the increase in water supply due to additional recharge capacity, and improved water quality due to decreased floodwater contamination. *

Budget

Other Contribution	$1,000,000.00
Local Contribution	$17,173,492.00
Federal Contribution	$0.00
Inkind Contribution	$0.00
Amount Requested	$16,173,493.00 *
Total Project Cost	$34,346,985.00 *

Geographic Information

Latitude *	DD(+/-)	34	MM	0	SS	21
Longitude *	DD(+/-)	117	MM	2	SS	12

Longitude/Latitude Clarification		Location	Northwest corner of Baseline Road and Cactus Avenue, City of Rialto
County		Modoc *	
Ground Water Basin		Upper Santa Ana Valley-Rialto-Colton	
Hydrologic Region		South Coast	
Watershed	Santa Ana River		

Legislative Information

Assembly District	62nd Assembly District *
Senate District	32nd Senate District *
US Congressional District	District 43 (CA) *

Project Information

Project Benefits Information

Project Name: Cactus Basins 3, 4 and 5

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	0	The District is currently perfoming a detailed flood plain analysis to determine the flood risk reduction area. The reduction will be achieved since the facility is being designed to handle a 100 year storm when the entire Rialto Channel system is constructed.
Secondary	Water Storage - - Groundwater-Other	35000	The total annual recharge capacity for Cactus Basins 3, 4 & 5 estimated in the 1988 EIR is 35,000 AFY. The basins percolation rate was determined in the Santa Ana River Water Rights Application for Supplemental Water Supply.
Tertiary	Water Storage - - Surface-Other	2039	Currently, the interim facility has a storage capacity 447 AF. Upon completion of the project, the basin's capacity will be increased nearly 5

			times, approximately 2039 AF.

Budget

Other Contribution	1000000
Local Contribution	17173492
Federal Contribution	0
Inkind Contribution	0
Amount Requested	16173493
Total Project Cost	34346985

Geographic Information

Latitude DD(+/-)	34	MM	0	SS	21	
Longitude DD(+/-)	117	MM	2	SS	12	
Longitude/Latitude Clarification		Location	Northwest corner of Baseline Road			

County	San Bernardino
Ground Water Basin	Upper Santa Ana Valley-Rialto-Colton
Hydrologic Region	South Coast
WaterShed	Santa Ana River

Legislative Information

Assembly District	62nd Assembly District
Senate District	32nd Senate District
US Congressional District	District 43 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

Q1. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles or types.

The proposed location of Cactus Basins 3,4 and 5 is an undeveloped field encompassing 140 acres. The project site is primarily a gently sloping (Less than 2%) alluvial fan. Several small shallow drainage channels currently cross the site and a significant portion of the land is being used for gravel pit operations. Cactus Basins 3, 4 and 5 are a part of the Rialto Channel system and have acted as a flood control facility from the time they were utilized as a borrow pit in 1976. The project is to be considered a replacement of existing facilities and will consist of the construction of three unlined basins and a Habitat Restoration Area. Basin No. 3 will encompass an area of 35.3 acres and a volume of 567 acre feet, Cactus basin 4 will consist of 32 acres and a volume of 627 acre-feet. Finally Cactus Basin 5 will consist of 41 acres and a volume of 845 acre-feet. Construction of the proposed project will entail grading three unlined retention basins (3,4 &5) and a system of basin inlets and outlets to route storm runoff in a controlled manner. The construction will require excavation of the existing basins (following previous sand and gravel removal activities) in order to increase the basins' depths thereby increasing the holding capacity to meet the increased storm water runoff. Slopes will measure between 20' and 46' in height from the basins bottom to the top of the slope. The inlet to Basins 3,4 & 5 will be constructed using 1/2 ton un-grouted rock. The width will range between 210 feet wide and 300 feet wide. The rock used at the inlets will reach from the top of the embankment to the toe at the basin bottom, which will also include a 25 foot wide splash pad. Water will flow from Basin No.5 to Basin No. 4 and eventually into basin no. 3 via a reinforced concrete pipe or box (sizes to be determined at final design). Water that exceeds the capacity of the culvert will over top and use the emergency spillway from Basin No.5 to Basin No.4. The spillway will be constructed of reinforced concrete, 120 feet wide with 1/4 ton rocks added to the sides and concrete for protection. The outlet of Basins 3 thru 5 will all incorporate a Reinforced Concrete Box Culvert. The project can logically be subdivided into three main aspects: 1) construction of basins 2) operation of the facility for flood control purposes, and 3) operation of the facility for artificial recharge of retained storm runoff.

Q2. PROJECT DIRECTOR

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Granville M. "Bow" Bowman, P.E.,P.L.S. Director - Flood Control 825 East 3rd Street, Rm 101 San Bernardino, CA 92415 (909) 387-7908 bbowman@dpw.sbcounty.gov

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Melissa Walker, P.E. Public Works Engineer IV 825 East 3rd Street, Rm 122 San Bernardino, CA 92415 (909) 387-8120 mwalker@dpw.sbcounty.gov

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state, and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

San Bernardino County Flood Control District 825 East 3rd Street San Bernardino, CA 92415 (909) 387-7918 www.sbcounty.gov CONTACT: Harold Zamora, P.E. Public Works Engineer III 825 East 3rd Street, Rm 122 San Bernardino, CA 92415 (909) 387-8120 hzamora@dpw.sbcounty.gov

Q5. ADDITIONAL INFORMATION

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

IRWM Region: Santa Ana Watershed Project Authority (SAWPA) POC: Mark Norton, Water Resources & Planning Manager Agency Name: SAWPA Telephone: (951) 354-4221 mnorton@sawpa.org

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD (S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

Santa Ana RWQCB (8) Address: 3737 Main Street, Suite 500 Riverside,CA 92501-3339 Phone: (951) 782-4130 Fax: (951) 781-6288

Q7. ELIGIBILITY

Is the application from an IRWM planning region approved in the RAP (See Section II B, Table 1)? If yes, include the name of the IRWM planning region. If not, explain.

Santa Ana Funding Area

Q8. ELIGIBILITY

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

Yes, San Bernardino County Flood Control District is a local agency

Q9. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q10 and Q11.

There are none.

Q10. ELIGIBILITY

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q9, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

N/A

Q11. ELIGIBILITY

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

N/A

Q12. ELIGIBILITY

Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project (s) and list the agency(ies) that will implement the project(s).

Cactus Basins 3, 4 and 5 are essential facilities that will aid in providing adequate storm protection infrastructure and groundwater recharge for the City of Rialto's primary commercial/industrial area. San Bernardino Valley Municipal Water District will partner with the District to implement and ensure the performance of the project.

Q13. ELIGIBILITY

For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section III.B of the Grant Guidelines?

groundwater management plan for the Rialto groundwater basin which lies beneath SBCFCD???s Cactus Basins project: (PLEASE SEE ATTACHMENT 1 for compliance)

Q14: ELIGIBILITY

Does the applicant have a Stormwater Resources Plan developed pursuant to Part 2.3 (commencing with Section 10560) of Division 6 of the Water Code, or an IRWM Plan that includes the Stormwater Resources Plan requirements specified in Section 10562 of the Water Code? Please answer yes or no. If yes, please answer Question 15 or 16, as applicable.

a) ☑ Yes
b) ☐ No

Q15: ELIGIBILITY

For applicants with a Stormwater Resources Plan, does that Plan meet the standards set forth in Part 2.3 of Division 6 of the CWC? If yes, provide attachment 13.

a) ☑ Yes

b) ☐ No

Q16:
ELIGIBILITY

For applicants with an IRWM Plan, does that Plan include the Stormwater Resources Plan requirements specified in Section 10562 of the CWC? If yes, provide attachment 13.

a) ☑ Yes
b) ☐ No

NOTES TO BMS ADMINISTRATOR

Provide notes about any potential problems you may have had with BMS that are particular to your application.

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY REQUIREMENTS

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Eligible.pdf

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here. **Upload additional Authorization and Eligibility documentation here.**

Upload additional Authorization and Eligibility documentation here.

ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL ADOPTION

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Adopt.pdf

Upload additional Proof of Formal Adoption documentation here. **Upload additional Proof of Formal Adoption documentation here.**

Upload additional Proof of Formal Adoption documentation here. **Upload additional Proof of Formal Adoption documentation here.**

ATTACHMENT 3: WORK PLAN

Upload the Work Plan here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Workplan.pdf

Upload additional work plan components here.

Upload additional work plan components here. **Upload additional work plan components here.**

Upload additional work plan components here.

ATTACHMENT 4: BUDGET

Upload the Budget here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Budget.pdf

Upload additional budget components here. **Upload additional budget components here.**

Upload additional budget components here. **Upload additional budget components here.**

ATTACHMENT 5: SCHEDULE

Upload the Schedule here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Schedule.pdf

Upload additional schedule components here.

Upload additional schedule components here. **Upload additional schedule components here.**

Upload additional schedule components here.

ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE MEASURES

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Measures.pdf

Upload additional Monitoring, Assessment, and Performance Measures here. **Upload additional Monitoring, Assessment, and Performance Measures here.**

Upload additional Monitoring, Assessment, and Performance Measures here. **Upload additional Monitoring, Assessment, and Performance Measures here.**

ATTACHMENT 7: ECONOMIC ANALYSIS - FLOOD DAMAGE REDUCTION COSTS AND BENEFITS

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: DReduc.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Last Uploaded Attachments: FRAM 4-11-11.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here. **Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.**

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

ATTACHMENT 8: ECONOMIC ANALYSIS - WATER SUPPLY COSTS AND BENEFITS

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Upload additional - Water Supply Costs and Benefits documentation here. **Upload additional - Water Supply Costs and Benefits documentation here.**

Upload additional - Water Supply Costs and Benefits documentation here. **Upload additional - Water Supply Costs and Benefits documentation here.**

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

ATTACHMENT 9: WATER QUALITY AND OTHER EXPECTED BENEFITS

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here. **Upload additional Water Quality and Other Expected Benefits documentation here.**

Upload additional Water Quality and Other Expected Benefits documentation here.

ATTACHMENT 10: COSTS AND BENEFITS SUMMARY

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: CB Summary.pdf

Upload additional Costs and Benefits Summary documentation here. **Upload additional Costs and Benefits Summary documentation here.**

Upload additional Costs and Benefits Summary documentation here. **Upload additional Costs and Benefits Summary documentation here.**

ATTACHMENT 11: PROGRAM

PREFERENCES

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Preference.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here. **Upload additional Program Preference documentation here.**

Upload additional Program Preference documentation here.

ATTACHMENT 12: AB1420 AND WATER METER COMPLIANCE INFORMATION

Upload AB1420 and Water Meter Compliance Information here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Upload additional AB1420 and Water Meter Compliance documentation here. **Upload additional AB1420 and Water Meter Compliance documentation here.**

Upload additional AB1420 and Water Meter Compliance documentation here. **Upload additional AB1420 and Water Meter Compliance documentation here.**

ATTACHMENT 13: STORMWATER RESOURCES PLAN

This attachment is only necessary if the applicant has an existing Stormwater Resources Plan, pursuant (commencing with Section 10560) of Division 6 of the Water Code and answered "yes" to Q15 or Q16.

The summary text must be no more than 5 pages in length using a minimum of 10-point type font. Excerpts from the Plan must not exceed 15 pages.

Attachment 13 must provide the following:

Identify and include portions of the applicable Plan that demonstrate all of the standards of Part 2.3 (commencing with Section 10560) of Division 6 of the CWC.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here. **Upload additional Stormwater Resources Plan documentation here.**

Upload additional Stormwater Resources Plan documentation here.